**Angela Garza**

**Submit by the end of Week 3.**

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| Name, grade level, and subject taught: | Angela Garza  10th Grade  Geometry | Date: | 4/27/09 |

***Part 1 Instructions***

For this assignment, you will use data from your grade book for one class or section of about 20–25 students. You will compute and compare the class averages for two grade reporting periods. No names or other identifying information should be included. If possible, use the 2nd and 4th six week averages. If you are on a nine week schedule, select 2 representative reporting periods, such as 1st and 3rd nine week averages. If your assignment does not report grades numerically, if your class roll is less than 20, or if you have questions about data for this assignment, contact your academic coach.

You will use class data to compute descriptive statistics. For the first reporting period, compute and report the frequency distribution by gender and ethnicity. For both reporting periods, compute and report the mean, mode, and median. Using this information, determine and discuss if the class academic performance changed from one six week grading period to the other.

(For scoring criteria, refer to Week 3 Part 1 Rubric)

STUDENT DATA for this assignment.

Follow the model below for student id, and data.

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| **MODEL** of data for five sample students.   |  |  |  |  |  | | --- | --- | --- | --- | --- | | STUDENT | GENDER | ETHNICITY | 2nd 6 week avg | 4th 6 week avg | | a | M | H | 87 | 87 | | b | F | W | 88 | 85 | | c | M | AA | 92 | 89 | | d | M | H | 93 | 95 | | e | F | A | 97 | 99 | |  |  |  |  |  | |
| Record your class data in this space:   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | |  | **Student** | **Gender** | **Ethnicity** | **2nd** | **4th** | |  | A | M | H | 91 | 70 | |  | B | F | W | 66 | 50 | |  | C | M | H | 83 | 62 | |  | D | F | H | 72 | 64 | |  | E | F | W | 92 | 87 | |  | F | F | H | 85 | 73 | |  | G | M | H | 60 | 70 | |  | H | M | H | 74 | 64 | |  | I | F | AA | 84 | 70 | |  | J | F | AA | 70 | 70 | |  | K | F | H | 57 | 58 | |  | L | F | AA | 84 | 70 | |  | M | M | W | 95 | 91 | |  | N | M | AA | 85 | 76 | |  | O | M | A | 81 | 81 | |  | P | F | H | 86 | 81 | |  | Q | M | AA | 60 | 70 | |  | R | F | W | 70 | 86 | |  | S | F | A | 96 | 97 | |  | T | F | A | 80 | 74 | |  | U | F | W | 70 | 89 | |  |  |  |  |  |  | | **MEAN** |  | | | 78 | 74 | | **MEDIAN** |  | | | 81 | 70 | | **MODE** |  | | | 70 | 70 | | **RANGE** |  | | | 39 | 47 | |

For your class, compute a frequency count by gender and ethnicity.

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| Gender Male \_\_\_\_\_8\_\_\_\_\_ Female \_\_\_13\_\_\_  Ethnicity African/American \_\_5\_\_\_\_ Asian \_\_\_\_3\_\_\_ Hispanic \_\_8\_\_\_\_  Native American \_\_\_0\_\_\_ White \_\_\_5\_\_\_\_\_ Other \_0\_\_ |

Prepare graphs to illustrate the frequency distribution for the gender and the ethnicity of the students in your class. Frequency distribution is addressed in McMillan and Schumacher (2006), pg. 153-158). You may use EXCEL or other software to create a Column graph or a Line graph. Copy and paste the EXCEL graphs into the space below. Or, you may also use a word processor to create a pictographic representation of the frequency distribution.

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Compute and report descriptive statistics (mean, mode, and median) for academic performance of each 6 week set of data (2nd and 4th 6 week final grade). Report all numeric values according APA style. Do not use more than 2 decimal places.

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| Semester Range Mean Mode Median  2nd six weeks \_\_\_39\_\_\_ \_78\_\_\_ \_70\_\_\_\_ \_\_81\_\_\_\_  4th six weeks \_\_47\_\_\_ \_74\_\_\_ \_70\_\_\_ \_\_70\_\_\_\_ |

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| For the 2nd six weeks data is the mean skewed from the mode positively, negatively, or is there a normal distribution?  The mean is positively skewed from the mode.  Briefly defend your response.  The mode is tremendously less than the class mean. Leaving the mean positively skewed from the mode. In a classroom the mean is usually the relevant information to the teacher, but the mode tells the teacher the number seen the most which is also relevant information. |

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| For the 4th six weeks data is the mean skewed from the mode positively, negatively, or is there a normal distribution?  The mean is positively skewed from the mode.  Briefly defend your response.  The mean is positively skewed from the mode. The mean is closer to the mode than in the 2nd 6 weeks data. This mean seems more relevant to the mode than that of the 2nd 6 weeks grading period. |

Briefly discuss (2-5 sentences, not more than 2 paragraphs) your understanding of the student academic performance in your class.

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| The second six weeks grading period and fourth six weeks grading period both are close in mean, mode and median. This means that the students were close in grades and the information was reached to them. Although. The range was completely far from the mean, median, and mode meaning that one or more students in the class are far behind in course material. |